

## **ABSTRACT OF THE DISCLOSURE**

A voltage control oscillating apparatus capable of automatically adjusting a oscillating frequency, comprising: a plurality of serial-coupled voltage control delay lines (VCDL) for outputting a plurality of oscillating  
5 signals respectively according to a voltage control signal, each of the oscillating signals is corresponding to a oscillating frequency; a multiplexer coupled to the VCDL for selecting one of the oscillating signals to be an output oscillating signal according to a control signal; a frequency detector coupled to the multiplexer for outputting a detecting signal according to the  
10 output oscillating signal; and a controller coupled to the frequency detector for outputting the control signal to the multiplexer according to the detecting signal.